

Amendments to the Claims

The listing of claims will replace the previous version, and the listing of claims:

Listing of Claims

1-24. (Canceled)

25. (Currently amended) A process of producing a stent, comprising:
preparing a tubular stent matrix extendable in a diametric direction,

forming flexible solid polymer layers on said stent matrix to cover entire inner and outer surfaces of the stent matrix, and

perforating a plurality of fine through pores in the solid polymer layers at portions only where the stent matrix does not exist,

wherein said forming the solid polymer layers comprises

a step of installing the stent matrix on an inner polymer layer disposed on an outer surface of a mandrel;

a step of forming an outer polymer layer by impregnating the mandrel into a liquid resin material for forming the outer polymer layer and pulling up the mandrel; and

a step of equalizing the thickness of the outer polymer layer by pulling up the mandrel in a vertical direction and controlling a pulling-up speed, and

wherein said fine pores are formed after the polymer layers are formed.

26. (Original) A process of producing a stent as claimed in claim 25, wherein the pulling-up speed is gradually lowered.

27. (Previously presented) A process of producing a stent as claimed in claim 25, wherein the outer polymer layer is made of a base resin material only.

28. (Previously presented) A process of producing a stent as claimed in claim 25, wherein the outer polymer layer comprises a base layer made of a base resin material and a layer of a biodegradable polymer covering the surface of the base layer.

29. (Previously presented) A process of producing a stent as claimed in claim 27, wherein the liquid base resin material is a solution of segmented polyurethane polymer.

30. (Canceled)

31. (Original) A process of producing a stent as claimed in claim 30, wherein said fine pores are formed by laser machining.

32-78. (Canceled)

79. (Previously presented) A process of producing a stent as claimed in claim 25, wherein said forming the solid polymer layers further comprises a step of impregnating the mandrel into a polymer liquid for the inner layer and pulling up the mandrel to form the inner polymer layer, on which the stent matrix is installed.